

Message Text

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DEPT PASS USGS FOR MASTERS, BUREAU OF MINES FOR YAMICK,
ERDA FOR VANDERRYN

E.O. 11652: N/A

TAGS: ENRG

SUBJECT: IEA WORKING GROUP ON COAL: MARCH 11-13

MEETINGS OF SUBGROUP ON ENERGY R&D

1. US COAL DATA SYSTEM ACCEPTED AT IEA MEETING MARCH 13.
SLIGHT MODIFICATIONS FOR RESERVE AND RECOVERABILITY FAC-
TORS WILL BE REQUIRED. NCB WILL MAINTAIN CLEARINGHOUSE
IN LONDON. USGS WILL MAINTAIN COMPUTER DATA SYSTEM IN
WASHINGTON.

2. MINING TECHNOLOGY, EQUIPMENT, AND MINING CLEARING-
HOUSE DISCUSSIONS DELAYED UNTIL NEXT MEETING, MAY 12-13
AT NCB, HOBART HOUSE. JAPANESE AND GERMANS UNABLE TO AP-
PROVE PENDING GOVERNMENTAL REVIEW, PARTICULARLY INsofar
AS LOCATION OF FACILITIES ARE CONCERNED.

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3. BRITISH PRESENTED PLAN FOR FLUIDIZED BED PILOT PLANT.

MUCH RESISTANCE FROM GERMANS, SUPPORTED STRONGLY BY CANADIANS. MEETING ACCEPTED PLAN IN THEORY, BUT DELAYED ACCEPTANCE UNTIL GERMANS COULD STUDY. US STATED IT WAS WITHOUT INSTRUCTIONS.

4. TEXT OF MINUTES OF MEETING FOLLOW:

"INTERNATIONAL ENERGY AGENCY WORKING GROUP ON COAL
SUBGROUP ON ENERGY R&D

NOTES OF A MEETING ON COAL RESOURCES AND RESERVES

LONDON-11TH MARCH, 1975

1. ARRANGEMENTS FOR THE MEETING AND WORK PROGRAMME
MR. L. GRAINGER (CHAIRMAN) ADDRESSED THOSE PRESENT (SEE ATTACHMENT 1). HE DREW ATTENTION TO DR. SCHMIDT-KUSTER'S LETTER TO HIM DATED 3RD MARCH (SEE ATTACHMENT 2) REQUESTING A PROGRAMME OF WORK ON COAL TECHNOLOGY. THIS PROGRAMME, WITH METHODS OF IMPLEMENTATION, WAS TO INCLUDE DETAILS OF THE COMMITMENTS OF PARTICIPATING COUNTRIES, THE TERMS ON WHICH THEY WOULD MAKE ANY NECESSARY FACILITIES AVAILABLE, AND THE ARRANGEMENTS TO BE MADE FOR PAYMENT BY PARTICIPATING COUNTRIES. AN INTERIM PAPER WAS REQUESTED BY 15TH MARCH, AND A FINAL RECOMMENDATION BY 2ND JUNE FOR DECISIONS BY 30TH JUNE (1975).

IT HAD BEEN ARGUED THAT ONE OF THE HEADINGS IN THE PROGRAMME CONCERNED THE CREATION OF AN INTERNATIONAL COAL RESOURCE AND RESERVE DATA SYSTEM (ATTACHMENT 3).

2. EXISTING ADMINISTRATION OF RESOURCE AND RESERVE ASSESSMENTS IN EACH COUNTRY

AN 'AROUND THE TABLE' REVIEW OF THE AUTHORITIES RESPONSIBLE IN EACH COUNTRY FOR RESOURCE AND RESERVE ASSESSMENTS SHOWED ALL TO HAVE AN EXISTING SYSTEM, SET OF DEFINITIONS AND DATA BANKING ARRANGEMENTS. IN THESE BOTH A NATIONAL (AND/OR SUB-NATIONAL-STATE, PROVINCIAL, LANDE, ETC.) GEOLOGICAL AND MINING AUTHORITY HELD RESPONSIBILITY FOR THE ASSESSMENTS.

IT WAS AGREED ANY INTERNATIONAL ENERGY AGENCY ARRANGEMENTS FOR ASSESSMENT OF RESOURCES AND RESERVES SHOULD HAVE LINKS WITH ANY PERMANENT OFFICE ENSUING FROM THE WORLD ENERGY CONFERENCE.

3. THE PURPOSE OF COAL RESOURCE AND RESERVE ASSESSMENTS WERE AGREED TO BE MORE THAN THOSE OF PROVIDING AN INVENTORIED OFFICIAL USE

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TORY OF COAL WHICH WAS PRESENT IN ANY GIVEN LOCALITY IN THE WORLD. THE PURPOSES INCLUDED THE PROVISION OF A BASIS FOR ESTIMATES OF THE MAXIMUM LIFE OF MINING UNDERTAKINGS AT ANY LEVEL OF OUTPUT, THE CHOICE OF SITES AVAILABLE FOR THEIR EXPANSION OR REPLACEMENT IN A MANNER WHICH MINIMIZED WASTAGE OF COAL, BY MATCHING CORRECT SUPPLY WITH THE DEMAND FOR COAL WITH PARTICULAR CHARACTERISTICS. IT WAS ALSO NECESSARY TO MAKE PROVISION FOR

NEW UTILIZATION AND EXTRACTION TECHNOLOGIES AND NEW FORMS
OF UTILIZATION OF BY-PRODUCTS AND BY-PRODUCT MATERIALS
NOW REJECTED.

4. SYSTEMS IN USE FOR NATIONAL RESOURCE AND RESERVE
ASSESSMENTS

DETAILED SUBMISSIONS OF THE SYSTEMS, DEFINITIONS AND
METHODOLOGY IN USE IN THE USA, CANADA AND THE UK WERE
TABLED, EXAMINED AND DISCUSSED. IT WAS AGREED THAT THEY
INVOLVED COMMON PRINCIPLES AND DIFFERED LARGELY TO THE EX-
TENT TO WHICH MINING HAD PROGRESSED INTO THE VARIOUS
COUNTRIES' TOTAL COAL RESOURCES.

5. SYSTEM TO BE ADOPTED FOR INTERNATIONAL ENERGY
AGENCY

IT WAS AGREED THAT THE FUNCTION OF THE MEETING WAS TO
PROVIDE A TERMINOLOGICAL AND SYSTEMS LEXICON, BY MEANS OF
WHICH ANY COUNTRY COULD CAST THE RESERVES AND RESOURCES
OF ALL OTHER COUNTRIES INTO THEIR OWN TERMS-RATHER THAN
TO ATTEMPT TO PROVIDE A FURTHER SET OF INTERNATIONAL
TERMS AND SYSTEMS CORRESPONDING TO NONE OF THE NATIONAL
METHODS OF ASSESSMENT.

6. BASIS OF THE INTERNATIONAL ENERGY AGENCY SYSTEM

THE REQUIREMENTS OF THE INTERNATIONAL ENERGY SYSTEM
WERE AGREED TO BE BOTH HIERARCHIAL, AND OPEN-ENDED IN
THE SUCCESSIVE LEVELS OF GENERALITY AND FINALITY OF DETAIL
USED IN ARRIVING AT QUANTITIES OF COAL BY LOCATION (IN
SPACE AS WELL AS TIME) GEOCHEMISTRY, ECONOMIC MINEABILITY
AND ACCURACY OF ASSESSMENT.

7. MODIFICATIONS REQUIRED TO ARRIVE AT AN IEA SYSTEM
THE USE SYSTEM WAS USED FOR REVIEW OF THE REQUIREMENTS

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OF AN IEA SYSTEM. IT WAS ACCEPTED IN PRINCIPLE SUBJECT
TO THE FOLLOWING AMENDMENTS:-

(I) LIMITING GEOTECHNICAL DEPTHS FOR ASSESSMENTS
SHOULD BE PLACED GENERALLY AT 6,000 FT. PROVISION WAS TO
BE MADE FOR RECORDING LOCAL EXCEPTIONS TO THIS GENERAL
RULE DUE TO ABNORMALITIES OF GEO-THERMAL GRADIENT OR TECH-
NOLOGICAL ACCESSIBILITY.

(II) A BROADER BASE THE HIERARCHY INVOLVED IN 'RE-
COVERABILITY FACTOR' WAS TO BE PROVIDED.

(III) EXTENSION OF THE FACTORS FOR LOSSES IN TRANSPORT
AND COAL PREPARATION WERE REQUIRED, SO THAT RESOURCE
ASSESSMENTS COULD BE PRESENTED IN 'DELIVERED' OR 'SALEABLE'
TONNAGES (WHERE THESE FACTORS HAD BEEN TAKEN INTO ACCOUNT).

(IV) IN THE FIELD OF GEOCHEMICAL UTILIZATION CHARAC-
TERISTICS THERE WAS AN URGENT NEED TO PROVIDE A SYSTEM
FOR ACCOMMODATING THE BROWN COALS AND LIGNITES."

"INTERNATIONAL ENERGY AGENCY WORKING GROUP ON COAL
SUBGROUP ON ENERGY R&D
DRAFT NOTES OF THE CONTINUATION OF A MEETING ON
COAL RESOURCES AND RESERVES
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LONDON-12TH MARCH, 1975
(AMENDMENTS OF THE NOTES OF PREVIOUS DAY'S MEETING
THE DRAFT NOTES RECORDING THE PREVIOUS DAY'S MEETING
WERE ACCEPTED, SUBJECT TO THE FOLLOWING AMENDMENTS:-

ITEM 2. EXISTING ADMINISTRATION OF...ASSESSMENTS...

PARA 1, LINE 2, TO READ '...SHOWED NEARLY ALL TO
HAVE...' (ALTHOUGH COAL RESOURCES AND RESERVES WERE
ASSESSED IN JAPAN, COMPUTER DATA BANKING FACILITIES
HAD NOT YET BEEN FINALIZED.)

ITEM 6. BASIS OF INTERNATIONAL ENERGY AGENCY SYSTEM
LINE 3 TO READ '...OF DETAIL AND FLEXIBLE IN THE PO-
SITION OF CLASSIFICATORY BOUNDARIES USED IN ARRIVING
AT QUANTITIES OF COAL...'

ITEM 8. AFTER WORD SYSTEM-'THROUGH A WORLD COAL RE-
SOURCES UNIT.'

NO FURTHER AMENDMENTS WERE RECEIVED.)

8. RECOMMENDED PROGRAMME OF WORK TO IMPLEMENT THE IEA
INTERNATIONAL COAL RESOURCES AND RESERVES SYSTEM

AFTER FURTHER DISCUSSION OF THE IEA SYSTEMATIC TERMINOLOGICAL LEXICON (PARA 5), ITS REQUIREMENTS (PARA 6) AND THE ADOPTION OF THE USA NATIONAL COAL DATA SYSTEM, SUBJECT TO CERTAIN AMENDMENTS (PARA 7) AS A BASIS FOR COMPARISON OF NATIONAL SYSTEMS, IT WAS AGREED THAT:-

8.1. CLEARING HOUSE FUNCTION AND INTERNATIONAL DATA BANK FUNCTION

(I) TWO DISTINCT FUNCTIONS WERE INVOLVED IN SETTING UP AND MAINTAINING AN IEA INTERNATIONAL COAL RESOURCES AND RESERVES SYSTEM.

(II) THE FIRST FUNCTION, THAT OF A 'CLEARINGHOUSE' WAS A PREREQUISITE TO THE SECOND FUNCTION, AN INTERNATIONAL DATA BANK. (AFTER THE 'START-UP' PHASE HAD BEEN COMPLETED, THE 'CLEARINGHOUSE' FUNCTION WOULD DIMINISH TO THAT OF VALIDATING INDIVIDUAL NATIONAL DATA REASSESSMENTS AND ACCOMMODATING CHANGES IN THE POSITION OF PARTICULAR NATIONAL CLASSIFICATORY BOUNDARIES.

8.2 LOCATION OF CLEARINGHOUSE FUNCTION

AFTER DISCUSSION, IT WAS AGREED THAT THE CLEARINGHOUSE FUNCTION SHOULD INITIALLY USE EXPERTISE WITHIN THE NATIONAL COAL BOARD AND INSTITUTE OF GEOLOGICAL SCIENCES OF UK, SUBJECT TO APPROVAL OF AUTHORITIES CONCERNED, AND THAT IT SHOULD BE LOCATED IN LONDON.

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8.3 LOCATION OF DATA BANKING FUNCTION

THE USA OFFERED TO UNDERTAKE THE TASK OF PROVIDING THE WORLD DATA BANK OF COAL RESOURCES AND RESERVES AS AN EXTENSION OF THE ALREADY LARGE US NATIONAL COAL DATA SYSTEM BANK, LOCATED AT RESTON, VIRGINIA, SUBJECT TO THE APPROVAL OF THE AUTHORITY CONCERNED.

8.4.1 RESPONSIBILITIES OF THE CLEARINGHOUSE FUNCTION

THE INITIAL RESPONSIBILITY OF THE CLEARINGHOUSE FUNCTION WAS TO:-

(A) CREATE A FIRST DRAFT FOR THE FRAMEWORK OF THE IEA SYSTEM LEXICON

FURTHER EXAMINE (I) THE USA, CANADIAN AND BRITISH SYSTEMS OF ASSESSING RESOURCES AND RESERVES, WHICH HAD BEEN TABLED, TOGETHER WITH (II) (NOTE 8.4.2 BELOW REFERS) REPRESENTATIVE EXISTING TABULATIONS OF COAL RESERVES AND RESOURCES AND TO PROVIDE A FIRST DRAFT OF A FRAMEWORK FOR A HIERARCHIAL TERMINOLOGICAL LEXICON OF NATIONAL DESCRIPTORS IN THE FIELDS OF

I COAL QUANTITY

II COAL BEARING AREA (INCLUDING MAP AND PLAN REPRESENTATIONS)

III GEOGRAPHICAL LOCATION OF AREAS

IV GEOLOGICAL, STRATIGRAPHICAL, TECTONIC, AND HYDROLOGICAL CHARACTERISTICS OF COAL AND HOST STRATA.

V TABULATIONS AND PRESENTATIONS

VI BEOTECHNICAL CHARACTERISTICS OF COAL (IN SITU)

VII ACCURACY OF ASSESSMENT

VIII GEOCHAMICAL, PETROLOGICAL, AND QUALITY CHARACTERISTICS OF COAL

AND IX DATA PROCESSING SYSTEMS FOR TRANSLATION OF ALL INDIVIDUAL NATIONAL SYSTEMS INTO THE AMENDED US SYSTEM, AND VICE VERSA FOR THE PROPOSED IEA WORLD DATA BANK OF COAL RESOURCES AND RESERVES.

TERMS USED IN EACH NATION WITH COAL INTERESTS SHOULD BE INSERTED IN PENCIL WITHIN THE FRAMEWORK, AND (A) THE COMPLETED FRAMEWORK OF THE LEXICON CIRCULATED TO MEMBERS OF THE MEETING FOR CORRECTION, (B) CONSIDERED FOR DATA PROCESSING SYSTEMS ANALYSIS.

(B) DISTRIBUTE THE CORRECTED FIRST DRAFT TO ALL MEMBERS AND INTERESTED NON-MEMBER NATIONS

NOTE: IT WAS AGREED THAT LATER DISTRIBUTION TO NON-LIMITED OFFICIAL USE

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MEMBER NATIONS MIGHT BEST BE (I) THROUGH THE AGENCY OF THE COMMONWEALTH GEOLOGICAL LIAISON OFFICE, FOR COMMONWEALTH NATIONS, (II) THROUGH THE CHAIRMAN OF THE STANDING

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COMMITTEE OF THE IEA TO ALL OTHER NON-MEMBER COUNTRIES.

(C) CARRY OUT THE PERMANENT WORK OF THE CLEARING-
HOUSE FUNCTION

USING THE COMPUTERIZED SYSTEMATIC TERMINOLOGICAL LEXI-
CON, RECEIVE NATIONAL DATA FROM CONTRIBUTING NATIONS,
VALIDATE IT AND DISTRIBUTE IT, AS REQUESTED (AT COST) TO
ALL CONTRIBUTING NATIONS. (NOTE: THE USA, SUBJECT TO
APPROVAL OF AUTHORITY CONCERNED, UNDERTOOK TO BANK ALL
DATA RECEIVED AND TO MAKE IT ACCESSIBLE TO MEMBER NATIONS
UNDER CERTAIN TERMS (SEE 10 BELOW).)

8.4.2 IMMEDIATE ACTION (IN RESPECT OF NOTE 8.4.1. (A)
ABOVE)

MEMBER COUNTRIES PRESENT AT THE MEETING WERE INVITED TO
CHOOSE AN EXAMPLE OF AN AUTHORITATIVE RESOURCE AND RE-
SERVE TABULATION,

(I) FOR ONE REPRESENTATIVE COALFIELD (AS A WHOLE GEO-
GRAPHICAL UNIT)

(NOTE: FOR ALL THREE COALFIELDS REPRESENTED FROM W.
GERMANY)

(II) FOR ONE OF THE SMALLEST CONSTITUENT UNITS (OF A
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NON-PROPRIETARY OR PRIVATE NATURE) WITHIN A COALFIELD,
PREFERABLY CONTAINING AT LEAST SOME COAL AT THEIR NEAREST
NATIONAL EQUIVALENT TO THE USA MEASURED ECONOMIC RESERVE
CATEGORY

TO SEND THE CHOSEN EXAMPLES, TOGETHER WITH THE OFFICIAL
NOTES OF GUIDANCE OR INSTRUCTION USED IN COMPILING THEM,
TO THE HEAD OF THE MINERAL INTELLIGENCE UNIT, INSTITUTE
OF GEOLOGICAL SCIENCES, UK.

8.5.1 INITIAL CONSTITUTION OF CLEARINGHOUSE FUNCTION TO
PRODUCE FIRST DRAFT FRAMEWORK OF LEXICON

SUBJECT TO CONFIRMATION BY THE AUTHORITIES CONCERNED,
THE FOLLOWING PERSONNEL WERE PROPOSED FOR MEMBERSHIP OF
THE INITIAL CLEARINGHOUSE CINSTITUENT GROUP:-

FIELDS OF	NAME	DESIGNATION
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RESPONSIBILITY

(IN PARA 8.4.1)

JOINT CHAIRMEN	A.M. CLARKE	CHIEF GEOLOGIST, NCB
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	C.G. WIDDAS	CHIEF PLANNING ENG., NCB
--	-------------	--------------------------

FIELDS I-IV	A.A. ARCHER	HEAD OF MINERALS INTEL- LIGENCE UNIT, IGS
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FIELDS V AND VII	M.J. ALLEN	ASST. CHIEF GEOLOGIST (RESERVES) NCB
------------------	------------	---

FIELD VIII E. BRADBURN ACTING HQ COAL SCIENTIST,
NCB

FIELD IX T.V. LOUDON HEAD OF COMPUTER UNIT,
IGS

8.5.2 TERMS OF REFERENCE OF CLEARINGHOUSE CONSTITUENT
GROUP

TO SUCH DEPTH AND DEGREE POSSIBLE WITHIN THE TIME AVAIL-
ABLE BETWEEN THIS MEETING AND 2ND JUNE (PARA 1 REFERS).

(A) TO PRODUCE A FIRST DRAFT FRAMEWORK FOR THE LEXI-
CON ON THE BASIS SPECIFIED IN PARAS 6, 7 AND 8 (A), (B)
AND (C) ABOVE.

(B) TO MAKE AN ANALYSIS OF THE FUTURE WORK OF THE CLEARINGHOUSE FUNC-
TION, PROVIDE A DETAILED DRAFT ORGANIZA-
TION, STAFFING PLAN, COST ANALYSIS, BUDGET, AND JOB DEF-
INITIONS FOR EACH PERSON IN THE PROPOSED ORGANIZATION.

8.5.3 IMMEDIATE ACTION

IT WAS AGREED THAT MEMBER COUNTRIES SHOULD PROVIDE JOINT
CHAIRMEN OF THE CONSTITUENT GROUP WITH THE NAMES OF COR-
RESPONDENTS IN EACH OF THE FIELDS LISTED IN PARA 8.4.1(A),
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AND/OR NAMES AND ADDRESSES OF A SENIOR REPRESENTATIVE ON
NATIONAL RESOURCES AND RESERVES TO WHOM COPIES OF ALL
CORRESPONDENCE BETWEEN THOSE CONSIDERING EACH FIELD SHOULD
BE SENT.

8.5.4 LIAISON BETWEEN CLEARINGHOUSE AND DATA BANKING
FUNCTION

IT WAS AGREED THAT THE COMMUNICATIONS LINK BETWEEN
CLEARINGHOUSE AND DATA BANK FUNCTION SHOULD BE THROUGH
G.H. WOOD AND M.D. CARTER OF USGS, RESTON, VIRGINIA,
USA.

9. STAFF FOR CLEARINGHOUSE FUNCTION AND DATA BANK-
ING FUNCTION

AFTER DISCUSSION, IT WAS AGREED THAT

(I) THE CONSTITUENT GROUP COULD ONLY SATISFY THE RE-
MIT GIVEN TO THEM IN 8.5.2 AS A TASK WHICH WOULD ALWAYS
BE SECONDARY TO THEIR MAIN WORK DURING THE REMAINDER OF
THIS MONTH OF MARCH.

(II) IF THE IEA INTERNATIONAL RESOURCE AND RESERVE
ASSESSMENT SYSTEM WAS TO WORK, THE STAFF WOULD BE RE-
QUIRED

(III) AT LEAST ONE-FIFTH OF THE STAFF SHOULD BE
SECONDED ON A ROTATING ANNUAL BASIS TO THE CLEARINGHOUSE
UNIT BY MEMBER NATIONS (EXCLUDING THE UK).

10. ESTIMATED COSTS AND TERMS ON WHICH PARTICIPATING
NATIONS WILL PROVIDE FACILITIES

(I) NATIONAL DATA BANKS: IT WAS AGREED THAT WHAT-
EVER THE COSTS AND PERSONNEL INVOLVED, EACH NATION SHOULD
PROVIDE NATIONAL DATA AT ITS OWN EXPENSE TO THE CLEARING-
HOUSE UNIT (SEE PARA 8.2.)

(II) CLEARINGHOUSE UNIT IN THE UK: IT WAS ENVISAGED
(SEE PARA 8.5.2B) THAT THE ANNUAL STAFFING COSTS FOR,
SAY, A DOZEN STAFF MIGHT COST BETWEEN 100,000 POUNDS AND
150,000 POUNDS. THE ADDITION OF COMPUTER TIME FOR DE-
VELOPING THE TRANSLATION PROGRAMME AND FORMATS, RENTAL
OF DATA LINKS TO THE INTERNATIONAL DATA BANK IN THE USA,
ETC., AND TRANSMISSION TIME, MIGHT BRING THE TOTAL TO NOT
MORE THAN 250,000 POUNDS PER ANNUM.

(III) USA TERMS FOR PROVIDING WORLD DATA BANK (SEE
PARA 8.3.)

COSTS OF PROVIDING A WORLD DATA BANK WERE ESTIMATED TO
BE MANY TIMES OF THE COST OF THE CLEARINGHOUSE.
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THE USA UNDERTOOK, SUBJECT TO APPROVAL, TO MEET THESE
COSTS PROVIDED IT WAS NOT INCLUDED IN ANY TO THE CREATION
AND MAINTENANCE OF THE CLEARINGHOUSE FUND.

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11. METHOD OF PAYMENT

IT WAS CONSIDERED THAT THE METHOD OF PAYMENT FOR THE IEA INTERNATIONAL RESOURCE AND RESERVES SYSTEM WAS BEST LEFT TO THE IEA STANDING COMMITTEE, AS THE PROPOSALS MADE TO DEVELOP THIS SYSTEM WERE OF A COMPARABLE NATURE TO THOSE CURRENTLY BEING MADE BY OTHER IEA GROUPS.

12. PURE RESEARCH AREAS IN RESOURCE AND RESERVE ASSESSMENT

IT WAS AGREED THAT STUDIES OF

(A) THE PROPOSALS, ATTACHMENT 4, BY MICHEL GRENON, SCIENTIFIC SECRETARY FOR THE INTERNATIONAL INSTITUTE FOR APPLIED SYSTEMS ANALYSIS, SCHLOSS LAXENBURG, A-2361 LAXENBURG, AUSTRIA, WHATEVER THEIR OUTCOME, COULD NOT BE IMPLEMENTED IMMEDIATELY BECAUSE OF THE INERTIA INVOLVED IN CHANGING EXISTING NATIONAL RESOURCE AND RESERVE ASSESSMENT SYSTEMS, HOWEVER, IT WAS AGREED THAT STUDIES ALONG THE LINES PROPOSED BY THE IIASA WERE DESIRABLE AND THAT, PROVIDED, THE UK GOVERNMENT WOULD PROVIDE THE FUNDS (IN THE HOPES OF RECLAIMING THEM FROM THE IEA), A SUITABLY QUALIFIED MEMBER OF THE CONSTITUENT CLEARINGHOUSE GROUP LIMITED OFFICIAL USE

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SHOULD ATTEND THE IIASA WORKSHOP ON ENERGY RESOURCES ON 20-21ST MAY, 1975.

(B) NATIONAL USES WHICH WERE MADE OF RESOURCE AND RESERVE ASSESSMENTS AND THE HISTORIC RATE OF CHANGE IN THESE USES

(C) CHANGES IN THE NATIONAL VIEWS TAKEN IN WHAT CONSTITUTED ECONOMIC VIABILITY AND THE USE OF THIS CONCEPT IN RESERVE ASSESSMENTS.

(D) THE USE OF CHANGE IN RESERVE ASSESSMENTS FOR INTERNATIONAL ENERGY ACCOUNTING

(E) THE MEANS BY WHICH THE EXISTING SPATIAL AND TEMPORAL HORIZONS OF THE SCIENCE OF ECONOMICS MIGHT BE BROADENED TO TAKE IN THE SCALE DICTATED BY THE NATIONAL OCCURRENCE OF COAL RESOURCE AND RESERVE FIELDS (TOGETHER WITH OIL RESOURCE AND RESERVE FIELDS).

THAT ALL OF THE ABOVE TOPICS SHOULD BE KEPT UNDER REVIEW SO THAT FURTHER CONSIDERATION SHOULD BE GIVEN AFTER THE IEA R&D PROGRAMME WORKING GROUP NO. 10 HAD BEEN FORMULATED.

13. MINUTES

IT WAS AGREED THAT AFTER CONFIRMATION OF THESE DRAFT NOTES, MINUTES OF THE TWO DAYS' MEETING SHOULD BE MADE FROM THE DRAFT NOTES AND CIRCULATED TO ALL MEMBERS OF THE GROUP."

RICHARDSON

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Message Attributes

Automatic Decaptioning: X
Capture Date: 01 JAN 1994
Channel Indicators: n/a
Current Classification: UNCLASSIFIED
Concepts: SCIENTIFIC COOPERATION, COAL, ECONOMIC DEVELOPMENT, MEETINGS
Control Number: n/a
Copy: SINGLE
Draft Date: 14 MAR 1975
Decaption Date: 01 JAN 1960
Decaption Note:
Disposition Action: RELEASED
Disposition Approved on Date:
Disposition Authority: MorefiRH
Disposition Case Number: n/a
Disposition Comment: 25 YEAR REVIEW
Disposition Date: 28 MAY 2004
Disposition Event:
Disposition History: n/a
Disposition Reason:
Disposition Remarks:
Document Number: 1975LONDON03988
Document Source: CORE
Document Unique ID: 00
Drafter: n/a
Enclosure: n/a
Executive Order: N/A
Errors: N/A
Film Number: D750090-0787
From: LONDON
Handling Restrictions: n/a
Image Path:
ISecure: 1
Legacy Key: link1975/newtext/t19750350/aaaabszi.tel
Line Count: 545
Locator: TEXT ON-LINE, ON MICROFILM
Office: ACTION EUR
Original Classification: LIMITED OFFICIAL USE
Original Handling Restrictions: n/a
Original Previous Classification: n/a
Original Previous Handling Restrictions: n/a
Page Count: 10
Previous Channel Indicators: n/a
Previous Classification: LIMITED OFFICIAL USE
Previous Handling Restrictions: n/a
Reference: n/a
Review Action: RELEASED, APPROVED
Review Authority: MorefiRH
Review Comment: n/a
Review Content Flags:
Review Date: 14 MAY 2003
Review Event:
Review Exemptions: n/a
Review History: RELEASED <14 MAY 2003 by ElyME>; APPROVED <15 MAY 2003 by MorefiRH>
Review Markings:

Margaret P. Grafeld
Declassified/Released
US Department of State
EO Systematic Review
05 JUL 2006

Review Media Identifier:
Review Referrals: n/a
Review Release Date: n/a
Review Release Event: n/a
Review Transfer Date:
Review Withdrawn Fields: n/a
Secure: OPEN
Status: NATIVE
Subject: IEA WORKING GROUP ON COAL: MARCH 11-13 MEETINGS OF SUBGROUP ON ENERGY R&D
TAGS: ENRG
To: STATE
Type: TE
Markings: Margaret P. Grafeld Declassified/Released US Department of State EO Systematic Review 05 JUL 2006